



Directions: Complete the concept map using the terms in the list below.

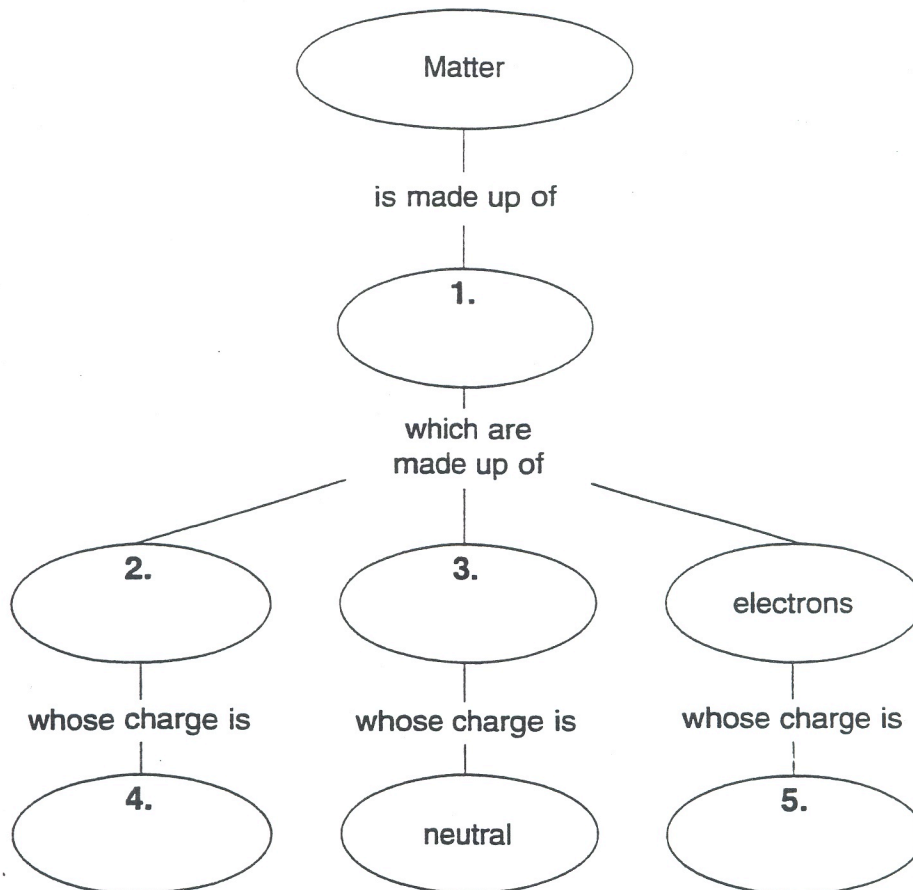
atoms

positive

negative

protons

neutrons



Directions: Complete the following sentences using the correct terms.

6. Atoms combine to form _____.
7. An object that is more dense than water will _____.
8. _____ is the only substance that can be naturally found on Earth as a solid, liquid, and gas.

SECTION

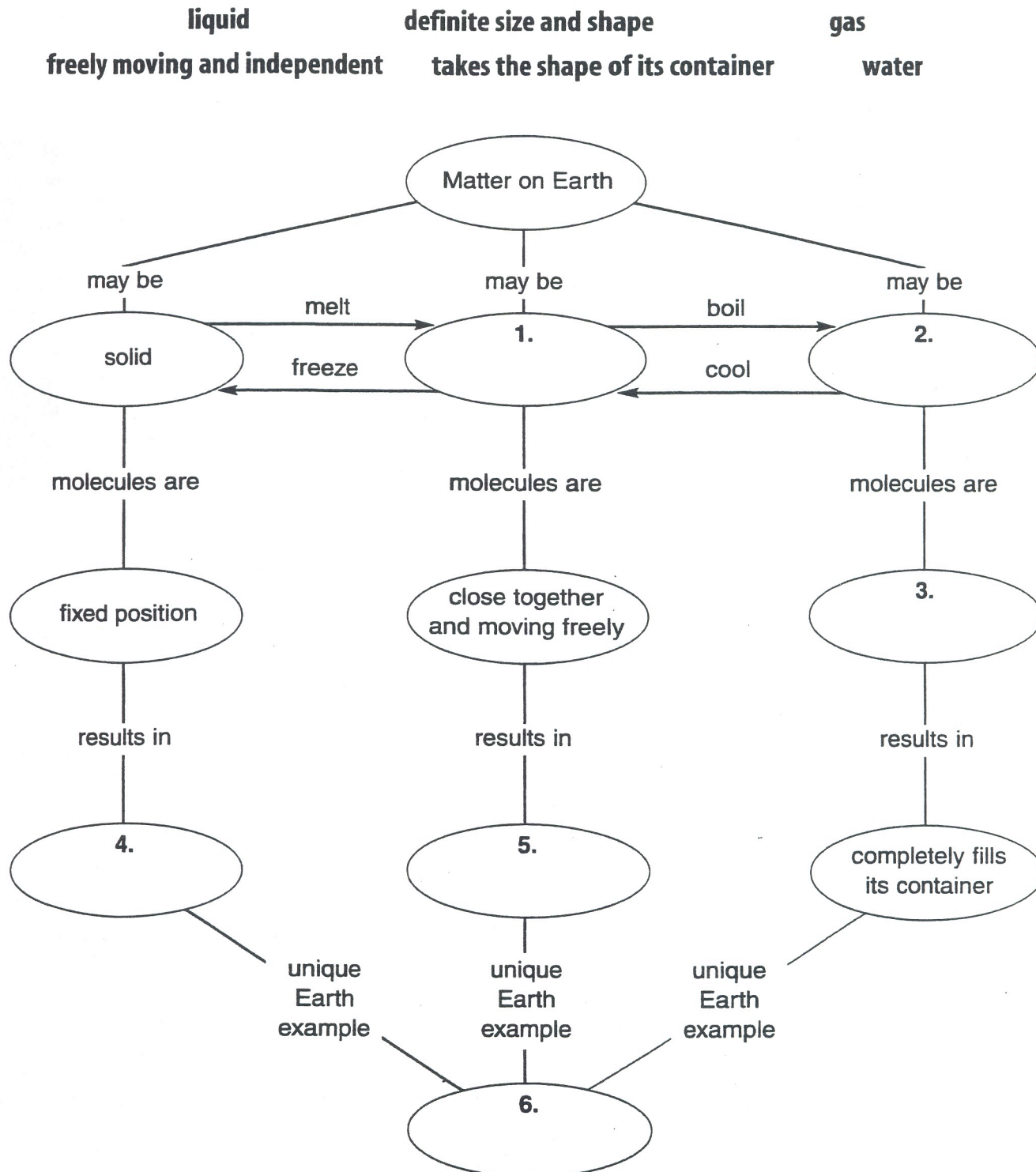
3

Reinforcement

Properties of Matter

CP 3.3
APP 2.3

Directions: Complete the concept map using the terms in the list below. Pay particular attention to the linking words or statements between boxes. The completed diagram will help you organize the relationships between physical states of matter on Earth.



The Chemistry of Minerals Notes

I. Atomic Structure

A. **MATTER** is _____

B. Elements

1. An **ELEMENT** is _____

2. Examples: _____

3. Symbols:

a. 1 or 2 letters (_____)

b. Comes from first letters of name (_____)

C. Atoms

1. An **ATOM** is _____

2. Structure:

a. Inside the nucleus:

i. **PROTON** (_____ charge)

ii. **NEUTRON** (_____ charge)

b. Outside the nucleus:

i. **ELECTRON** (_____ charge)

ii. Electron energy levels (_____)

3. An atom is usually **neutral** because: _____

D. Atomic Number and Mass Number

1. The **ATOMIC NUMBER** is _____

2. The **MASS NUMBER** is _____

3. To determine the **number of electrons** in an atom: _____

4. To determine the **number of protons** in an atom: _____

5. To determine the **number of neutrons** in an atom: _____

E. Compounds

1. A **COMPOUND** is _____

2. Examples: _____

3. A **MOLECULE** is _____

II. Chemical Composition of Minerals

A. What is a mineral?

1. _____
2. _____
3. _____
4. _____
5. _____

B. Examples: _____

C. Non-Examples: (What is NOT a Mineral.)

1. Water - _____
2. Pearl - _____
3. Coal - _____

D. Most minerals are _____:

Quartz - _____

Halite - _____

E. Native Minerals are: _____
